

AMENDMENTS TO THE CLAIMS

The claims in this listing will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A bulb of an electrodeless lamp system using stannum (Sn) as a primary bulb fill in order to provide a continuous spectrum in discharging, wherein an auxiliary bulb fill filled in the bulb is mercury for stabilizing the discharge and changing the spectrum.

2. (Currently Amended) The bulb of claim 1, wherein the primary bulb fill is a halogenide of the Sn.

3. (Currently Amended) The bulb of claim 2, wherein the halogenide of the Sn is stannum bromide (SnBr₂).

4. (Currently Amended) The bulb of claim 1, wherein a filling amount of the primary bulb fill is within a range of 0.005 ~ 0.1 mol/cc.

5. (Original) The bulb of claim 1, wherein buffer gas filled in the bulb for contributing initial discharging includes at least one or more among Ne, Ar, Kr and Xe.

6. (Canceled)

7. (Currently Amended) The bulb of claim ~~[[6]]~~ 1, wherein the mercury is added to be an amount within a range of 10⁻⁷ ~ 10⁻³ mol/cc.

8. (Original) The bulb of claim 1, wherein the capacity of the bulb has 50 watt/cc or more power consumption concentration.

9. (Currently Amended) An electrodeless lamp system comprising:
a microwave generator for generating microwave radiation by being supplied power from a source;

a resonator blocking the generated microwave radiation and transmitting emitted light; and

a bulb, in which filled luminescent material becomes plasma by the generated microwave radiation to generate the light,

wherein the bulb includes a primary bulb fill in order to obtain a continuous continued spectrum is when discharging, and

wherein mercury is added to the bulb as an auxiliary bulb fill for stabilizing the discharge and for changing the spectrum.

10. (Original) The system of claim 9, wherein the primary bulb fill is stannum (Sn).

11. (Current Amended) The system of claim 9, wherein the primary bulb fill is a halogenide of Sn.

12. (Original) The system of claim 11, wherein the halogenide of Sn is stannum bromide (SnBr₂).

13. (Original) The system of claim 9, wherein the primary bulb fill is filled within a range of 0.005 ~ 0.1 mol/cc.

14. (Original) The system of claim 9, wherein buffer gas filled in the bulb for contributing to initial discharging includes at least one or more among Ne, Ar, Kr and Xe.

15. (Canceled)

16. (Currently Amended) The system of claim ~~[[15]]~~ 9, wherein the amount of mercury is within a range of $10^{-7} \sim 10^{-3}$ mol/cc.

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17. (Original) The system of claim 9, wherein the capacity of the bulb has 50 watt/cc or more power consumption concentration.